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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/731,645	12/08/2003	Yasuto Sakai	524941/0022	4946
7590 08/16/2006			EXAMINER	
Lawrence Rosenthal			VO, ANH T N	
Stroock & Stroock & Lavan LLP 180 Maiden Lane New York, NY 10038			ART UNIT	PAPER NUMBER
			2861	
			DATE MAILED: 08/16/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/731,645	SAKAI ET AL.
Office Action Summary	Examiner	Art Unit
	Anh T.N. Vo	2861
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
<ul> <li>1) Responsive to communication(s) filed on 03 M</li> <li>2a) This action is FINAL. 2b) This</li> <li>3) Since this application is in condition for allowed closed in accordance with the practice under M</li> </ul>	s action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-3,5-7,9-13,15-17 and 19 is/are pen 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3, 5, 6, 9-13 and 17 is/are rejected. 7) ☐ Claim(s) 7,15,16 and 19 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o Application Papers  9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ accomplicant may not request that any objection to the	wn from consideration.  or election requirement.  er. erepted or b) objected to by the l	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	, , , , , ,	•
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)  1) \( \sum \) Notice of References Cited (PTO-892)  2) \( \sum \) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) \( \sum \) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date \( \frac{5/03/06 & 7/13/06}{\).	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	

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Non-Final Rejection

### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance. Since this application is eligible for continued examination under 37 CFR 1.1 14, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the allowance of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 05/03/2006 has been entered.

#### **CLAIM REJECTIONS**

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior arts are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 5-7, and 9-13 are rejected under 35 USC 103 (a) as being unpatentable over Miyazawa et al. (Pub. No.: US 2002/0109760) in view of Masuda et al. (JP Pat. 10-235889).

Note: The method steps are inherently taught in the apparatus device/limitations in the rejections as follow:

Miyazawa et al. discloses in Figures 22A-22B and 29-30 an ink cartridge comprising:

- a container body (162) having an opening part (unmarked opening part that is covered by an element 163), which is opened, at a first side face (Figure 29);
- a lid (163), which is attached to said first side face of said container body (162), for covering said opening part (Figure 22B);
- a penetrating part (an unmarked recess that forms from a left side wall of an element 162) formed at said container body (163), said penetrating part is formed at an engaging part, which has an extending part that extends along a second side face adjacent to said first side face of said container body (162); Figure 29);
- a caulking part (unmarked protrusion that extends from edges of the element 163) formed at said lid (163) and inserted into said penetrating part (an unmarked recess that forms from a left side wall of an element 162) (Figures 29-30);
- wherein said container body (162) or said lid (163) is provided either of said engaging part or said caulking part (unmarked protrusions that extend from edges of the element 163, see Figure 30) respectively at a plurality of said second side faces adjacent to said first side face (Figures 20-30);
- said penetrating part (an unmarked recess that forms from a left side wall of an element 162) of said engaging part at a first one of said plurality of said second side faces is a penetrating hole in oder for said caulking part to be inserted, while said penetrating part of said engaging part at a

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second one of said plurality of said second side faces is formd as a notch in order for said caulking part to be inserted (Figures 29-30);

- a sealing member (254) having flexibility for forming a liquid container (161), which is a closed space for containing liquid in association with said container body (162) by sealing said opening part of said container body (162), wherein said sealing member (254) is covered by said lid (163) at said first side face (Figure 29);
- Wherein said sealing member (254) comprises a sealing member extending part, which extends to an area facing an edge part of said cartridge body (162) and an edge part of said lid (163), and said sealing member extending part is fixed by being put between said edge part of said lid (Figures 29);
- wherein a caulking part (unmarked protrusion that extends from edges of the element 163) which extends in a direction perpendicular to said first side face is formed at said lid (163), while a penetrating part (an unmarked recess that forms from a left side wall of an element 162) into which said caulking part is inserted, is formed at said container body (162), which does not have said caulking part (Figure 29); and
- wherein said engaging part has an end part a height of which with respect to a direction perpendicular to said second side face is higher than a plane of said extending part (Figure 29); -
- wherein said engaging part (an unmarked recess that forms from a left side wall of an element 162) further comprising a side wall part provided along both side ends of said extending part, and a height of said side wall part with respect to a direction perpendicular to the second side face is higher than the plane of said extending part (Figure 29); and
- wherein a liquid supplying part (195) is formed at a side face adjacent to said first side face of said container body (162) and communicates with a liquid containing chamber (193) formed at said container body (162), and said container body (162) is provided with a plurality of engaging parts (an unmarked recess that forms from a left side wall of an element 162, see Figure 29), which extend a long a second side face adjacent to said first side face in order to hold said liquid supplying part (195), while said lid (163), which does not have said engaging parts, is provided with a plurality of caulking parts, one of which is inserted into said penetrating part provided at said engaging part (Figures 29-30).

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However, Miyazawa et al. do not disclose a caulking part formed at said container body inserted into said penetrating part in order for a tip part thereof to be caulked with heat.

Masuda et al. disclose in Figures 5-8 an ink tank comprising a caulking part (welding pins, not shown) formed at said container body (19) inserted into said penetrating part (pin hole 35 formed in a cover member 30) in order for a tip part thereof to be caulked with heat (see Machine English translation of JP 10-235889, page 6, lines 30-39).

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to incorporate the teaching of Masuda et al. in the Miyazawa et al. ink cartridge for the purpose of securely engaging between the lid or the cover and the ink cartridge body.

# Allowable Subject Matter

Claim 7 would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims. This claim would be allowable because none of the prior art references of record discloses a liquid cartridge for supplying a liquid by being mounted on a liquid ejecting apparatus comprising an engagement hollow part, which is provided at the container body and has substantially the same width as the engaging part, for accepting the engaging part, wherein a depth of the engagement hollow part is substantially the same as that of the end part in a direction perpendicular to the second side face in the combination as claimed.

Claims 15-16 would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims. These claims would be allowable because none of the prior art references of record discloses a liquid cartridge for supplying a liquid by being mounted on a liquid ejecting apparatus comprising a memory supporting part for supporting a memory for storing information about a liquid at a second side face adjacent to said first side face of said container body, wherein said memory supporting part is attached to said container body to cover at least one of said caulking parts in the combination as claimed.

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Claim 19 would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims. This claim would be allowable because none of the prior art references of record discloses a method for manufacturing a liquid cartridge comprising a step of fitting said penetrating part, which penetrates in a direction perpendicular to said first side face, with said caulking part, which extends in a direction perpendicular to said first side face, by turning said lid toward said container body, taking a fitted part between said penetrating hole and said caulking part as a turning center in the combination as claimed.

## **CONCLUSION**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Anh Vo whose telephone number is (571) 272-2262. The examiner can normally be reached on Tuesday to Friday from 9:00 A.M.to 7:00 P.M.. The fax number of this Group 2861 is (571) 273-8300.

ANHT.N. VO
PRIMARY EXAMINER
August 10, 2006